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Number 41

The Protection of Pome Fruits, 1979–March 1985

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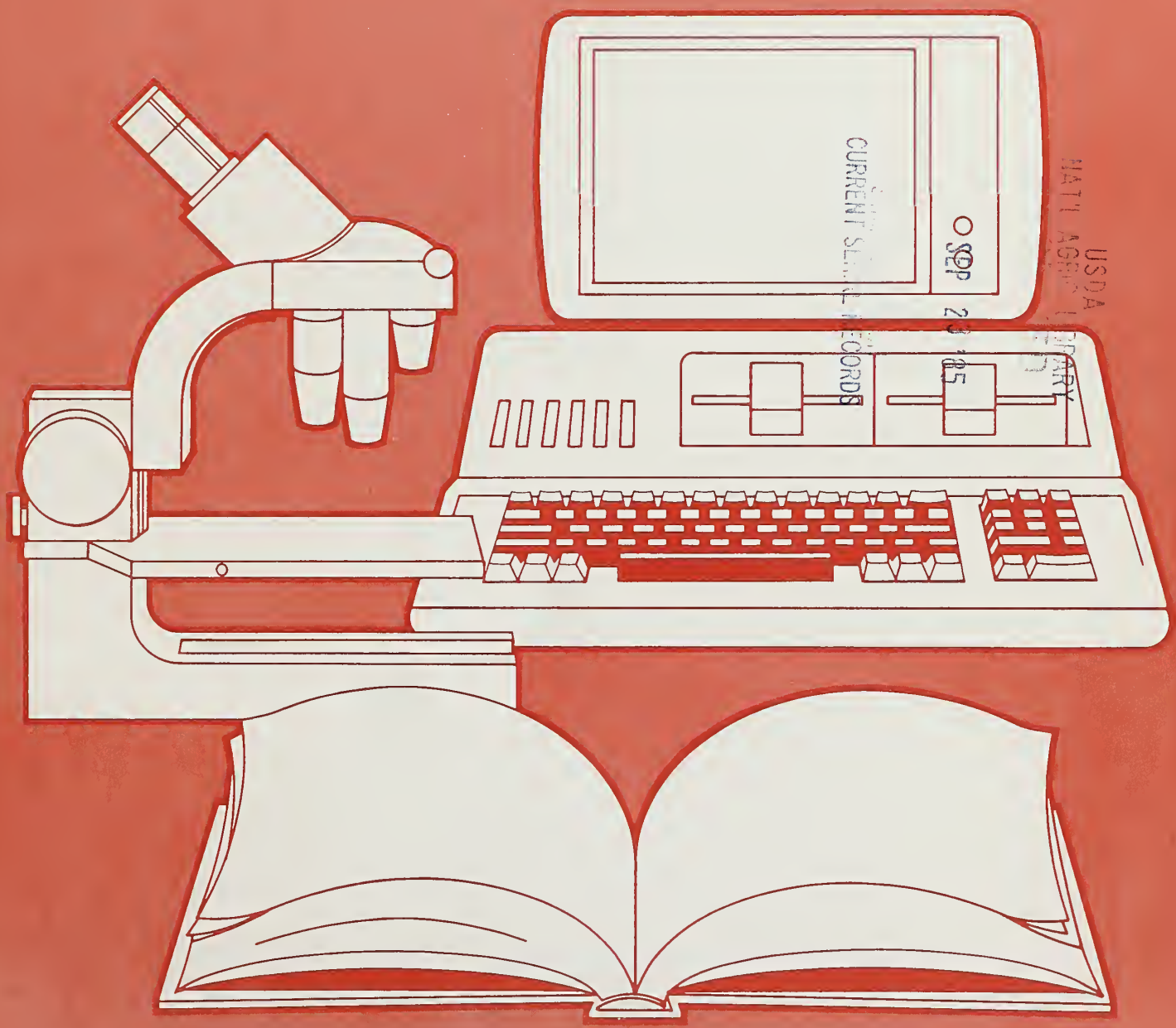

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The Protection of Pome Fruits 1979–March 1985

Citations from Agricola Concerning Diseases and Other Environmental Considerations

Compiled and Edited by
Charles N. Bebee
National Agricultural Library

Bibliographies and Literature
of Agriculture No. 41

United States Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

August 1985

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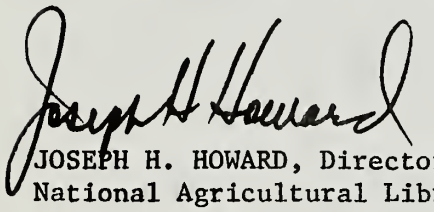
FOREWORD

This is the fifth volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.



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NOTE –
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INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of the protection of pome fruits. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the family of data bases compiled by the National Agricultural Library and its cooperators.

This is the fifth bibliography included in a series of commodity-oriented environmental data bases jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes issued recently or planned for the immediate future concern protection of corn, soybeans, wheat, stone fruits, grain sorghum, rice, and peanuts.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author index is also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

Any comments or questions may be forwarded to the compiler:

Charles N. Bebee
USDA, National Agricultural Library
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Ballard, J.K. Tukey, R.B. Pullman, Wash., The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Oct 1981. Formerly published as EC0870. Oct 1981. (0978). 6 p. ill. (NAL Call No.: 275.29 W27P).

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0002

Apple tree--N.J. 49 cultivar (Varieties, early ripening dessert apples, medium resistance to insects and diseases, medium keeping quality).
Bailey, C.H. Hough, L.F. Washington, D.C., The Office. United States patent. Plant - United States Patent and Trademark Office. June 9, 1981. June 9, 1981. (4740). 2 p. plate. (NAL Call No.: 156.65 P69).

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Apple tree (Coop 12) (Cultivars, resistance to Venturia inaequalis).
Williams, E.B. Janick, J.; Emerson, F.H.; Dayton, D.F.; Hough, L.F.; Bailey, C. (n.p.), The Office. Plant patent - United States Patent Office. Dec 26, 1978. Dec 26, 1978. (4359). 2 p. plate. (NAL Call No.: 156.65 P69).

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Honeysweet pear tree (Varieties, some disease resistance).
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Pear tree (Pyrus calleryana, ornamentals, bright red leaves in autumn, winter hardiness).
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ECONOMICS

0006

South Carolina crop statistics, state and county data: 1975-1979 revised, 1980 preliminary.
South Carolina Crop and Livestock Reporting Service. Clemson, The Station. Extract: The agricultural statistics in this publication include revised crop statistics for acreage, yield, production and value of production at the state and county level for 1975-1979 and preliminary estimates for 1980. Regular Census revisions in state data have been completed and are reflected in the revised data. Also included are data on disposition of crops, number of farms, land in farms, commercial fertilizer, farm labor, vegetable statistics and quarterly grain stock estimates, both on and off farms. Supercedes AE 405 and 413. AE - South Carolina Crop and Livestock Reporting Service, Dept. of Agricultural Economics and Rural Sociology, S.C. Agricultural Experiment Station, Clemson University. June 1981. Predominantly tables. June 1981. (AE 417). 42 p. (NAL Call No.: 281.9 C59).

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South Carolina Crop and Livestock Reporting Service. Clemson, The Station. Extract: The agricultural statistics in this publication include revised crop statistics for acreage, yield, production and value of production at the state and county level for 1980 and preliminary estimates for 1981. Also included are data on disposition of crops, number of farms, land in farms, commercial fertilizer, farm labor, vegetable statistics, and quarterly grain stock estimates, both on and off farms. AE - South Carolina Crop and Livestock Reporting Service, Dept. of Agricultural Economics and Rural Sociology, S.C. Agricultural Experiment Station, Clemson University. June 1982. Predominantly tables. June 1982. (421). 38 p. (NAL Call No.: 281.9 C59).

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Low-temperature injury to apples in the Champlain Valley, 1980-81 (Losses, New York State).
McNicholas, F.J.NYFSB. Forshey, C.G. Geneva : New York (State), Agricultural Experiment Station, Geneva. New York's food and life sciences bulletin. 1982. 1982. (93). 6 p. ill. (NAL Call No.: S95.E22).

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Apple pest management: a cost analysis of alternative practices.
Rossi, D. Dhillon, P.S.; Hoffman, L. College Park, Md. : The Council. Extract: The purpose of this paper is to report the results of a detailed examination of the costs of producing apples. More specifically, the pest management costs of apple producers in southern New Jersey using conventional pest management practices are compared to those using integrated pest management. Pest management costs are presented in context of total production costs and in light of previous published results. Journal - Northeastern Agricultural Economics Council. 1983. v. 12 (2). p. 77-81. Includes 11 references. (NAL Call No.: HD1773.A2N6).

0010

The biological and economic assessment of amitraz, interim progress report, 1980 crop year.
Kuntz, B.T. Delvo, H.W. Washington, D.C. : The Service. Extract: This report presents a comparative biological and economic analysis of amitraz and other insecticides-acaricides for control of psylla, Psylla pyricola Foerster, on pears. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1983. Available from NTIS, order no. PB84-103209. May 1983. (AGES830614). 36 p. Includes 4 references. (NAL Call No.: 916762(AGE)).

0011

Cost of producing apples and peaches in Virginia (Chemicals, energy, costs).
Baumes, H.S. Jr. Blacksburg, Va., The Service. Virginia agricultural economics - Virginia Polytechnic Institute and State University, Cooperative Extension Service. June 1981. June 1981. (323). 4 p. (NAL Call No.: 275.29 V813).

0012

Economic analysis of azinphosmethyl use for control of apple pests.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The objective of this analysis is to evaluate the benefits azinphosmethyl use to control major apple insect pests. The pest complex treated with azinphosmethyl varies by region. The following analysis assumes that azinphosmethyl is replaced by alternative insecticides which are effective against the major pests for which azinphosmethyl is currently used in each region. The benefits are expressed as changes in production costs, prices, producer revenues, and consumer expenditure resulting fron the substitution of alternative pest control methods. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 43). 82 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0013

Economic analysis of captan use for control of apple diseases.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The objective of this report is to evaluate the benefits of captan use to control major fungal pathogens of apple as part of the RPAR review being conducted by the Environmental Protection Agency (EPA). Captan is used in the United States to control apple scab, sooty blotch, flyspeck, black rot, bitter rot, and white rot of apple. The following analysis projects annual cost, production, price, producer revenue, and consumer expenditure effects assuming that captan is cancelled and replaced by alternative fungicides which are effective against the same diseases. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 45). 66 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0014

Economic analysis of cyhexatin use for control of apple pests.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The objective of this analysis is to evaluate the benefits of cyhexatin use to control major apple insect pests. The following analysis assumes that cyhexatin is replaced by alternative acaricides which are effective against the major pests for which cyhexatin is currently used in each region. the benefits are expressed as changes in production costs, prices, producer revenues, and consumer expenditures resulting from the substitution of alternative pest control methods. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 46). 45 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0015

Economic analysis of Dikar R use for control of apple diseases.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The of objective of this report is to evaluate the benefits of Dika R use to control major fungal pathogens of apple as part of the RPAR review being conducted ty the Environmental Protection Agency (EPA). Dikar R is used in the United States to control apple scab, sooty blotch, flyspeck, black rot, bitter rot, white rot, and powdery mildew. Dikar R is also effective as a mite suppressant. The following analysis projects annual cost, production, price, producer revenue, and consumer expenditures effects assuming that Dikar R is cancelled and replaced by alternative fungicides which are effective against the same diseases. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 47). 42 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0016

Economic analysis of metiram use for control of apple diseases.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The objective of this report is to evaluate the benefits of metiram use to control major fungal pathogens of apple as part of the RPAR review being conducted by the Environmental Protection Agency (EPA). Metiram is used in the United States to control apple scab, sooty blotch, flyspeck, black rot, bitter rot, and white rot of appel. The following analyis projects annual production cost, price, producer revenue, and consumer expenditure effects assuming that metiram is cancelled and replaced by alternative fungicides which are effective against the same diseases. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 48). 67 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0017

Economic analysis of phosalone use for control of apple pests.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The objective of this analysis is to evaluate the benefits of phosalone use to control major apple insect pests. The pest complex treated with phosalone varies by region. The following analysis assumes that phosalone is replaced by alternative insecticides which are effective against the major pests for which phosalone is currently used in each region. The benefits are expressed as change in production costs, prices, producer revenues, and consumer expenditure resulting from the substitution of alternative pest control methods. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 49). 79 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0018

Economic analysis of phosmet use for control of apple pests.
Norton, G. Kuchler, F.; Baumes, H. Blacksburg, Va. : The Division. Extract: The objective of this analysis is to evaluate the benefits of phosmet use to control major apple insect pests. The pest complex treated with phosmet varies by region. The following analysis assumes that phosmet is replaced by alternative insecticides which are effective against the major pests for which phosmet is currently used in each region. The benefits are expressed as changes in production costs, prices, producer revenues, and consumer expenditures resulting from the substitution of alternative pest control methods. Research report - Virginia Polytechnic and State University. Research Division. June 1982. June 1982. (A.E. 50). 78 p. Includes 12 references. (NAL Call No.: S543.V5V5).

0019

Economic feasibility of a deer-proof fence for apple orchards (Damage control, costs).
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0020

Economic profiles for apple orchards and vineyards, 1981 and five year average, 1977-81.
Whitaker, D.B. White, G.B. Ithaca, N.Y. : The Station. Extract: This report explains the procedures followed in constructing enterprise budgets for fresh and processing apple orchards as well as for seven grape varieties grown in New York State. An economic engineering approach similar to that discussed by Knoblauch and Milligan analyzing the principal internal and external characteristics of an average orchard or vineyard was employed. The internal factors included farm size, the building and equipment complements and the management level required. In turn, the management level dictated the cultural practices to be followed including spray programs, herbicide use and pruning practices. A.E. Res. - New York State College of Agriculture and Life Sciences, Department of Agricultural Economics, Cornell University, Agricultural Experiment Station. Dec 1982. Predominantly tables. Dec 1982. (82-48). 69 p. Includes 9 references. (NAL Call No.: 281.9 C81A).

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0022

Efficacy and cost analysis of insecticides and miticides in orchard spray programs (Apples, Integrated Pest Management Program).
Hull, L.A. New Brunswick, N. J., The Society. Horticultural news.New Jersey State Horticultural Society. Spring 1979. v. 60 (2). p. 24-29. ill. (NAL Call No.: 81 N46).

0023

Estimated economic impact of the apple maggot.
Schotzko, R.T. Pullman, Wash. : The Service. Extract: The recent discovery of apple maggot (Rhagoletis pomonella) in western Washington has commercial apple producers concerned about the possibility of introduction of the pest

into eastern Washington. This paper assesses the potential economic damage from this insect. Factors considered in the analysis include production and marketing costs. Production costs are increased by the additional sprays required to control apple maggot. Grower returns are reduced by limited access to California markets early in the season. The problem of access may also occur in major export markets. Reduced grower returns would adversely affect the local economy. Extension Bulletin - Washington State University, Cooperative Extension Service. May 1982. May 1982. (1132). 8 p. Includes references. (NAL Call No.: 275.29 W27P).

0024

Evaluation of strategy performance and risk efficiency of integrated pest management (IPM) programs in apple production.
Cochran, M. Robison, L.; Jones, A.; Wagner, S.; Croft, B. East Lansing, Mich., The Department. Extract: This study was designed to examine some of the benefits of conversion from conventional control practices to IPM programs in production systems. Agricultural economics staff paper - Michigan State University, Dept. of Agricultural Economics. 1982. 1982. (27). 35 p. Includes 14 references. (NAL Call No.: 918134(AGE)).

0025

Impact on costs and energy requirements of adopting alternate middle spray techniques in apple orchards.
Christensen, R.L. Prokopy, R.J. Amherst, The Council. Extract: The purpose of this paper is to describe one pest management strategy which would significantly reduce the amount of pesticides used while, it was hypothesized, having no significant effect on yields or fruit quality. The alternate middle treatment involves spraying alternate halves of each tree on alternate spray dates instead of both halves (every middle) on all spray dates. The method of economic analysis employed was partial budgeting. Only direct costs and returns were considered with no attempt made to assess the social or environmental benefits resulting from reduced use of pesticides. Journal - Northeastern Agricultural Economics Council. Oct 1979. v. 8 (2). p. 243-247. 5 ref. (NAL Call No.: HD1773.A2N6).

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Preliminary benefit analysis of endrin use on apple orchards (to control pine and meadow voles).
Luttner, M.A. Winchester, Va. : R.E. Byers. Proceedings of the ... Eastern Pine and Meadow Vole Symposium. 1978. 1978. (2nd). p. 18-22. Includes references. (NAL Call No.: SB605.U6E3).

0027

Selection of apple scab pest management strategies under uncertainty: an application of various stochastic dominance techniques.
Cochran, M. Lodwick, W.; Jones, A.; Robison, L. East Lansing, Mich., The Department. Extract: For most scenarios considered the conventional spray program used to control apple scab in Michigan orchards is risk efficient even though it has an expected return below the Integrated Pest Management (IPM) programs. Several Stochastic Dominance techniques are applied and the results compared. Agricultural economics staff paper - Michigan State University, Dept. of Agricultural Economics. 1982. 1982. (34). 12 p. Includes 11 references. (NAL Call No.: 918134(AGE)).

DISTRIBUTION AND MARKETING

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Bruising and freezing of apples in storage and transit by Dean H. Rose and J.M. Lutz.
Rose, Dean H. (Dean Humboldt), 1878. Washington, D.C. U.S. Dept. of Agriculture 1933. 15 p., 7 leaves of plates : ill. -. Includes bibliographical references. (NAL Call No.: Fiche S-69 no.370).

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Marketing apples grown in the Cumberland-Shenandoah region of Pennsylvania, Virginia, and West Virginia by Carl R. Swinson ... (et al.).
Swinson, Carl R. Washington, D.C. U.S. Dept. of Agriculture 1931. 51 p. : ill., map -. Bibliography: p. 26-28. (NAL Call No.: Fiche S-69 no.234).

0030

Protection of apples and pears in transit from the Pacific Northwest during the winter months E.D. Mallison, E.A. Gorman, Jr., and W.V. Hukill.
Mallison, E. D. (Earl Dewey), 1898. Washington, D.C. U.S. Dept. of Agriculture 1937. 55 p. : ill., maps -. Bibliography: p. 53-54. (NAL Call No.: Fiche S-69 no.550).

0031

Quality control: from orchard to buyer (Apples, harvesting, storage, marketing).
Auvil, T. Wenatchee, Wash. : The Association. Proceedings - Washington State Horticultural Association. 1983. 1983. (79th). p. 48, 50, 52, 54, 56, 58. (NAL Call No.: 81 W273).

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(GRADING, STANDARDS, LABELLING)

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Effect of nitrogen and daminozide on shoot growth for pear Psylla suppression and on 'Barlett' pear performance (Growth regulator, Psylla pyricola, fire blight, Erwinia amylovora).
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0091

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Shipway, Michael Richard, 1942. 1972. Thesis (Ph.D.)--University of Massachusetts, 1972. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. ix, 123 leaves ; 21 cm. Bibliography: leaves 105-113. (NAL Call No.: DISS 72-18,033).

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Evaluation of apple cultivars on size-controlling rootstocks.
Matta, F.B. Hooks, R.F.; Sullivan, D.T.; Trujillo, P.M. Las Cruces. Research report - New Mexico, Agricultural Experiment Station. Nov 1980. Nov 1980. (428). 3 p. 4 ref. (NAL Call No.: 100 N465R).

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Evaluation of the tree-row-volume concept with density adjustments in relation to spray deposits in apple orchards (Pesticides, growth regulators, North Carolina).
Sutton, T.B. Unrath, C.R. St. Paul, Minn. : American Phytopathological Society. Plant disease. June 1984. v. 68 (6). p. 480-484. ill. Includes references. (NAL Call No.: 1.9 P69P).

0095

Factors affecting apple-tree response to chemical branch-induction treatments (Plant growth regulators, 6-benzylamino purine, gibberellic acid, growth habit, New York, Ontario).
Elfving, D.C. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. July 1984. v. 109 (4). p. 476-481. ill. Includes 38 references. (NAL Call No.: 81 SO12).

0096

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0097

Fertilizing fruit in small areas.
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Fertilizing trees in the landscape: a 9-year evaluation (Tilia cordata, Acer saccharum).
Smith, E.M. Treaster, S.A. Wooster, Ohio, The Center. Abstract: The growth of Tilia cordata, Malus 'Snowdrift', and Acer saccharum 'Monumentale' was not affected by fertilizer placement. Significant growth increases were observed from drill hole treatments without fertilizer, with tilia indicating a direct benefit from aeration in poorly drained soils. Nearly all nitrogen treatments resulted in trunk caliper and diameter of branch spread increases, with the 6 and 9 lb N/1000 ft treatments every 3 years the most effective. Research circular - Ohio Agricultural Research and Development Center. Jan 1981. Jan 1981. (263). p. 11-13. 10 ref. (NAL Call No.: 100 OH3R).

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'Freedom', a new disease-resistant apple (Varieties, performance, disease resistance).
Lamb, R.C. Aldwinckle, H.S.; Terry, D.E. Geneva, N.Y. : New York (State), Agricultural Experiment Station, Geneva. New York's food and life sciences bulletin. 1983. 1983. (102). 2 p. ill. Includes references. (NAL Call No.: S95.E22).

0100

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Simons, R.K. n.p. TransactionsIllinois State Horticultural Society. 1978. v. 112. p. 25-26. (NAL Call No.: 81 IL6).

0101

Fruit thinning and russeting effects of oxamyl on apple (Malus domestica, Typhlocyba pomaria, organophosphate insecticides).
Meyer, R.H. Alexandria, Va., American Society for Horticultural Science. HortScience. Aug 1982. v. 17 (4). p. 658-659. 6 ref. (NAL Call No.: SB1.H6).

0102

Growing apples on the northern fringe of commercial production (Winter injury).
Estabrooks, E.N. East Lansing, Mich., International Dwarf Fruit Tree Association. Compact fruit tree. May 1981. v. 14. p. 46-51. 4 ref. (NAL Call No.: 93.5 D96).

0103

Growing apples, pears, and quinces; pest control, air drainage important.
Way, R.D. Washington. The yearbook of agricultureUnited States Dept. of Agriculture. 1977. 1977. p. 246-252. ill. (NAL Call No.: 1 AG84Y).

0104

Handling fruit trees under drought conditions (Cherries, prunes, peaches, pears, Washington).
Proebsting, E.L. Middleton, J.E. Portland, Ore. Annual reportOregon Horticultural Society. 1978. v. 69 (92d). p. 93-95. (NAL Call No.: 81 OR32).

0105

A heat transfer model for ice encapsulated apple buds (Sprinkler system for frost protection).
Phillips, J.R. Sastry, S.K.; Morrow, C.T. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-4008). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0106

History of the Old Home X Farmingdale pear rootstocks (Pyrus communis, breeding for fire blight resistance, Pacific Northwest, Oregon).
Brooks, L.A. University Park, Pa. : American Pomological Society. Fruit varieties journal. July 1984. v. 38 (3). p. 126-128. (NAL Call No.: 80 F9464).

0107

Impact on costs and energy requirements of adopting alternate middle spray techniques in apple orchards.
Christensen, R.L. Prokopy, R.J. Amherst, The Council. Extract: The purpose of this paper is to describe one pest management strategy which would significantly reduce the amount of pesticides used while, it was hypothesized, having no significant effect on yields or fruit quality. The alternate middle treatment involves spraying alternate halves of each tree on alternate spray dates instead of both halves (every middle) on all spray dates. The method of economic analysis employed was partial budgeting. Only direct costs and returns were considered with no attempt made to assess the social or environmental benefits resulting from reduced use of pesticides. Journal - Northeastern Agricultural Economics Council. Oct 1979. v. 8 (2). p. 243-247. 5 ref. (NAL Call No.: HD1773.A2N6).

0108

In vitro micrografting of apple shoot tips (Stem grooving virus).
Huang, S.C. Millikan, D.F. Alexandria, Va., American Society for Horticultural Science. HortScience. Dec 1980. v. 15 (6). p. 741-743. ill. 13 ref. (NAL Call No.: SB1.H6).

0109

Increased yield and suppression of shoot growth and mite populations of "d'Anjou" pear trees with nitrogen and paclobutrazol.
Raese, J.T.HJHSA. Burts, E.C. Alexandria : American Society for Horticultural Science. HortScience. Apr 1983. v. 18 (2). p. 212-214. ill. Includes references. (NAL Call No.: SB1.H6).

0110

Influence of six rootstocks and herbicides on growth, cropping, and fruit quality of Blaxtayman apple trees (Intensive plantings, southern Ohio).
Ferree, D.C. Hill, R.G. Jr. Wooster : The Center. Research circular - Ohio Agricultural Research and Development Center. Sept 1982. Sept 1982. (272). p. 3-6. ill. 10 ref. (NAL Call No.: 100 OH3R).

0111

The influence of urea sprays, mulch, and pruning on apple tree decline (Magicicada spp., 17-year cicada, Ohio).
Cahoon, G.A. Donoho, C.W. Jr. Wooster : The Center. Research circular - Ohio Agricultural Research and Development Center. Sept 1982. Sept 1982. (272). p. 16-19. map. 5 ref. (NAL Call No.: 100 OH3R).

0112

Liberty from fungicides? (Disease resistant apple varieties).
Aldwinckle, H.S. Lamb, R.C. n.p. Proceedings of the ... annual meetingNew York State Horticultural Society. 1979. 1979. 124th. p. 23-29. ill. (NAL Call No.: 81 N484).

0113

Pear culture in Michigan.
Larsen, R. Paul. Document available from: Michigan State Univ., Bulletin Office, P.O. Box 231, East Lansing, Michigan 48824 1976. This discusses pear culture including origin, adaptability, site, soil, planting, pruning, training, fruit thinning, and harvesting. 9 p. : ill. (NAL Call No.: Document available from source.).(NAL Call No.: Extension Bulletin E-519).

0114

Pears (Varieties, pruning, fertilization, Georgia).
Crassweller, R.M. Ferree, M.E. Athens, Ga., The Service. Circular - Cooperative Extension Service, University of Georgia. Dec 1981. Dec 1981. (742). 4 p. ill., map. (NAL Call No.: 275.29 G29C).

0115

Phenolic compounds in two size-controlling apple rootstocks.
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Effect of tree fertilization on numbers and development of pear psylla (Homoptera: Psyllidae) and on fruit damage (Psylla pyricola, Pyrus communis).
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Madsen, H.F. Carty, B.E. Ottawa, Entomological Society of Canada. Canadian entomologist. May 1979. v. 111 (5). p. 627-630. ill. 5 ref. (NAL Call No.: 421 C16).

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0459

Comparison of susceptibility to European red mite (Acari: Tetranychidae) of three groups of related apple crosses with and without scab resistance (Venturia inaequalis, Panonychus ulmi).
Goonewardene, H.F. Kwolek, W.F.; Dayton, D.F. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 720-723. ill. Includes ref. (NAL Call No.: QL461.E532).

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A comparison of the efficiency of sprays of two drop-size ranges in an apple orchard (to control powdery mildew Podosphaera leucotricha, red spider mite Panonychus ulmi).
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Hatch, A.H. Bulla, A.D. Ft. Collins. Progress reportColorado. Experiment Station. Feb 1977. Feb 1977. (2). 2 p. ill. (NAL Call No.: 100 C71C).

0464

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0465

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Mahr, D.L. Madison, Wis., The Programs. Publication - Cooperative Extension Programs, University of Wisconsin Extension. Apr 1981. Apr 1981. (A1851). 2 p. ill. (NAL Call No.: S544.3.W6W53).

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0471

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Fye, R.E.JEENA. College Park : Entomological Society of America. Journal of economic entomology. Apr 1983. v. 76 (2). p. 306-310. Includes references. (NAL Call No.: 421 J822).

0472

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Matsuzaki, M. Tokyo, Zoological Society of Japan. Annotationes zoologicae japonenses. Dec 1978. v. 51 (4). p. 222-235. ill. Bibliography p. 234-235. (NAL Call No.: 410 AN79).

0480

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0482

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0490

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0491

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Eastern tent caterpillar control with nuclear polyhedrosis viruses in Maryland, 1981 (Malacosoma americanum, Autographa californica, evaluated on wild cherry, and flowering crab apple trees).
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0502

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0503

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0505

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0507

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0508

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0509

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0510

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0511

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Santos, M.A. College Park, Md., Entomological Society of America. Environmental entomology. Aug 1982. v. 11 (4). p. 972-974. ill. 13 ref. (NAL Call No.: QL461.E532).

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0516

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0517

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0518

Efficiency of use of economic threshold of damage by codling moth Laspeyresia pomonella L. (Lepidoptera, Tortricidae) and tetranychid mites (Acarina, Tetranydae) in Crimea (Pests of apples).
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0519

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0520

Establishment in Canada of the parasite Apanteles pedias Nixon on the spotted tentiform leafminer, Phyllonorycter blancardella (Fabr.) (Apple pest).
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0521

Establishment, spread and current distribution of pear psylla (Psylla pyricola) in western Colorado.
Batiste, W.C. Bulla, A.D. Ft. Collins, Colo., The Station. Progress report - Colorado State University Experiment Station. Dec 1980. Dec 1980. (11). 3 p. ill. (NAL Call No.: 100 C71C).

0522

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0523

European corn borer infestation of newly planted apple trees (Ostrinia nubilalis, New York).
Weires, R.W. Straub, R.W. College Park, Md., Entomological Society of America. Environmental entomology. June 15, 1982. v. 11 (3). p. 645-647. ill. 5 ref. (NAL Call No.: QL461.E532).

0524

Eutromula pariana (Clerck) (Lepidoptera: Choreutidae), the correct name of the apple-and-thorn skeletonizer.
Heppner, J.B. Vancouver. JournalEntomological Society of British Columbia. Dec 31, 1978. v. 75. p. 40-41. 6 ref. (NAL Call No.: 420 B77).

0525

Evaluation of fungicides for control of apple diseases and European red mite, 1980 (Apple (Malus sylvestris 'McIntosh', 'Delicious'), scab; Venturia inaequalis, sooty blotch; Gloeodes pomigena, fly speck; Microthyriella rubi, European red mite; Pananychus ulmi).
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0526

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0527

Evaluation of insecticides on pear Psylla during post-harvest period.
Bulla, A.D. Ft. Collins, Colo., The Station. Progress report - Colorado Experiment Station. Apr 1982. Apr 1982. (4). 2 p. (NAL Call No.: 100 C71C).

0528

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0529

Experimental removal of 17-year cicada nymphs and growth of host apple trees (Magieicada cassini, Magieicada septendeeim, Malus pumila, New York).
Karban, R. Lawrence, Kan., The Society. Journal of the New York Entomological Society. June 1982. v. 90 (2). p. 74-81. ill. Includes 2 p. ref. (NAL Call No.: 420 N48J).

0530

Experiments on the release of a strain of the predatory mite Metaseiulus occidentalis Nesbitt resistant to organophosphorus preparations in Crimean agrocenoses (Pest of the red apple mite Panonychus ulmi).
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0531

Field evaluation of synthetic sex pheromome attractants for the eye-spotted bud moth (Spilonota ocellana) (Lepidoptera: Olethreutidae) and three leafroller species (Lepidoptera: Tortricidae) (Archips argyrospilus, Choristoneura rosaceana, Pandemis limitata, apple orchards).
MacLellan, C.R. Ottawa. Canadian entomologist. Aug 1978. v. 110 (8). p. 847-852. ill. 10 ref. (NAL Call No.: 421 C16).

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0756

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0758

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0759

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0760

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0761

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0762

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0763

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0764

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0765

Apple disease control by experimental and standard fungicide combinations, 'Jonathan' cultivar, 1979 (Apple (Malus sylvestris), powdery mildew; Podosphaera leucotricha, scab; Venturia inaequalis, rust; Gymnosporangium juniperi-virginianae, sooty blotch; Gloeodes pomigena, fly speck; Schizothyrium pomi, brooks fruit spot; Mycosphaerella pomi, fruit rots).
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0766

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0767

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0768

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0769

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0770

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0771

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Garcia, S. Moscardi, C. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 5-6. (NAL Call No.: 464.9 AM31R).

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0848

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0899

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0902

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0903

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0905

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Moller, W.J. Berkeley, Calif., The Service. California plant pathology - Cooperative Extension, University of California. Mar 1981. Mar 1981. (52). p. 1-2. 4 ref. (NAL Call No.: SB599.C3).

0906

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0907

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0908

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0909

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0910

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0911

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0912

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Hickey, K.D.FNETD. Garretson, M.; May, J. (s.l.) : The Society. Fungicide and nematicide tests : results - American Phytopathological Society. 1983. v. 38. p. 140. (NAL Call No.: 464.9 AM31R).

0913

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0914

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0918

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0919

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0923

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0924

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0931

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0934

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0938

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0944

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0945

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0949

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0950

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0951

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0952

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0953

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0956

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0957

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0958

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0960

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0961

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0963

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0964

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0965

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0966

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0967

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0968

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0970

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0972

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0974

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0975

Evaluation of RPAR (Rebuttable Presumption Against Registration) fungicides and alternative compounds on Delicious, Golden Delicious and Rome apples, 1980 (Apple (Malus sylvestris 'Delicious', 'Golden Delicious', 'Rome Beauty'), scab; Venturia inaequalis, rust; Gymnosporangium juniperi-virginianae, powdery mildew; Podosphaera leucotricha).
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0976

Evaluation of RPAR (Rebuttable Presumption Against Registration) fungicides and alternative compounds on 'Golden Delicious' and 'Rome' apple cultivars, 1979 (Apple (Malus sylvestris), powdery mildew; Podosphaera leucotricha, rust; Gymnosporangium juniperi-virginianae, brooks fruit spot; Mycosphaerella pomi, sooty blotch; Gloeodes pomigena, fly speck; Schizothyrium pomi, fruit rots).
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0977

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0978

Evaluation of RSAT and SAT treatments with Bravo and summer treatments of Captan and Rubigan + Captan, 1982 (Control of apple scab, Venturia inaequalis on Malus sylvestris).
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0979

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0980

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0981

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0982

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0983

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1101

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Starkey, T.E. Hendrix, F.F. Jr. St. Paul, Minn., American Phytopathological Society. Plant disease. Mar 1980. v. 64 (3). p. 292-294. ill. 2 ref. (NAL Call No.: 1.9 P69P).

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Borecki, Z. Czynczyk, A.; Puchala, Z.; Millikan, D.F. St. Paul, American Phytopathological Society. Plant disease. Nov 1982. v. 66 (11). p. 1027-1029. 8 ref. (NAL Call No.: 1.9 P69P).

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Sutton, T.B. Geneva. Special reportNew York (State). Agricultural Experiment Station, Geneva. June 1978. June 1978. (28). p. 6-9. 22 ref. (NAL Call No.: S95.E24).

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Nesmith, W.C. Morrison, F. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 15-16. (NAL Call No.: 464.9 AM31R).

1118

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results - American Phytopathological Society. 1982. v. 37. p. 4-5. (NAL Call No.: 464.9 AM31R).

1119

Scab and powdery mildew control with fungicides applied after scab infection periods, 1979 (Apple (Malus sylvestris 'Granny Smith'), scab; Venturia inaequalis, powdery mildew; Podosphaera leucotricha).
Washington, W.S. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 20. (NAL Call No.: 464.9 AM31R).

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Peterson, J.L. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 131. (NAL Call No.: 464.9 AM31R).

1121

Scab control with fungicides applied after infection periods, 1980 (Apple (Malus sylvestris 'Granny Smith'), scab; Venturia inaequalis).
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1123

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Emerson, F.H. East Lansing, Mich., International Dwarf Fruit Tree Association. Compact fruit tree. June 1980. v. 13. p. 105-108. 7 ref. (NAL Call No.: 93.5 D96).

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Simple decision aids for practical control of pests (Gymnosporangium juniperi-virginianae, pest forecast models, apples).
Seem, R.C. Russo, J.M. St. Paul, Minn. : American Phytopathological Society. Plant disease. Aug 1984. v. 68 (8). p. 656-660. ill. Includes 9 references. (NAL Call No.: 1.9 P69P).

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MacHardy, W.E. Beltsville, Md., Science and Education Administration, U.S. Dept. of Agriculture. Plant disease reporter. Mar 1979. v. 63 (3). p. 199-204. ill. 8 ref. (NAL Call No.: 1.9 P69P).

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Garcia, S. (s.l.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 5. (NAL Call No.: 464.9 AM31R).

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Gilpatrick, J.D. Geneva. Special reportNew York (State). Agricultural Experiment Station, Geneva. June 1978. June 1978. (28). p. 30-32. ill. 24 ref. (NAL Call No.: S95.E24).

1128

The sooty blotch and fly speck diseases of apple with emphasis on variation within Gloeodes pomigena (Schw.) Colby / by Kenneth D. Hickey.
Hickey, Kenneth D. (Kenneth Dyer), 1933. 1960. Thesis (Ph.D.)--Pennsylvania State University, 1960. Photocopy. Ann Arbor, Mich. : University Microfilms International, 1983. vii, 127 leaves : ill. ; 21 cm. Bibliography: leaves 118-122. (NAL Call No.: DISS 60-5,438).

1129

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Siegel, M.R. St. Paul, Minn., American Phytopathological Society. Plant disease. Dec 1981. Presented at a workshop on New Fungicides for Apple and Pear Diseases, August 24, 1980. Minneapolis, Minn. v. 65 (12). p. 986-989. ill. 38 ref. (NAL Call No.: 1.9 P69P).

1130

Sterol-inhibiting fungicides for control of certain diseases of apple in the Cumberland-Shenandoah region (Venturia inaequalis, Gymnosporangium juniperivirginianae, Pennsylvania, Virginia).
Yoder, K.S. Hickey, K.D. St. Paul, Minn., American Phytopathological Society. Plant disease. Dec 1981. Presented at a workshop on New Fungicides for Apple and Pear Diseases, August 24, 1980. Minneapolis, Minn. v. 65 (12). p. 998-1001. 23 ref. (NAL Call No.: 1.9 P69P).

1131

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1132

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Maciejowska, Zofia, 1924. 1962. Thesis (Ph.D.)--Purdue University, 1962. Photocopy. Ann Arbor, Mich. : University Microfilms International, 1983. xiv, 145 leaves : ill. ; 21 cm. Bibliography: leaves 140-143. (NAL Call No.: DISS 63-2,110).

1133

Studies on the role of naturally occurring phenolic compounds in the resistance of immature apple fruit to rot caused by Botrytis cinerea, Penicillium expansum and Alternaria sp. / by Thomas Onuoha Chukwujike Ndubizu.
Ndubizu, Thomas Onuoha Chukwijike, 1938. 1970. Thesis (Ph.D.)--Cornell University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. viii, 76 leaves ; 21 cm. Bibliography: leaves 65-76. (NAL Call No.: DISS 71-14,581).

1134

Summer disease control in apple, 1980 (Apple (Malus sylvestris 'Delicious', 'Golden Delicious'), bitter rot; Glomerella cingulata, white rot; Botryosphaeria dothidea, black rot; Physalospora obutsa, sooty blotch; Gloeodes pomigena, fly speck; Microthyriella rubi).
Sutton, T.B. (s.1.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1981. v. 36. p. 16-17. (NAL Call No.: 464.9 AM31R).

1135

Summer disease control, 1979 (Apple (Malus sylvestris), bitter rot; Glomerella cingulata, white rot; Botryosphaeria dothidea, black rot; Physalospora obtusa, sooty blotch; Gloeodes pomigena, fly speck; Microthyriella rubi).
Sutton, T.B. (s.1.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1980. v. 35. p. 19. (NAL Call No.: 464.9 AM31R).

1136

Summer disease control, 1981 (Apple (Malus sylvestris 'Delicious', 'Golden Delicious'), bitter rot; Glomerella cingulata, white rot; Botryosphaeria dothidea, sooty blotch; Gloeodes pomigena, fly speck; Microthyriella rubi).
Sutton, T.B. (s.1.), The Society. Fungicide and nematicide tests; results - American Phytopathological Society. 1982. v. 37. p. 16. (NAL Call No.: 464.9 AM31R).

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Fye, R.E.EVETB. College Park : Entomological Society of America. Environmental entomology. Feb 1983. v. 12 (1). p. 222-226. Includes references. (NAL Call No.: QL461.E532).

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Whalon, M.E.EVETB. Croft, B.A.; Mowry, T.M. College Park : Entomological Society of America. Environmental entomology. Oct 1982. v. 11 (5). p. 1096-1099. ill. Includes references. (NAL Call No.: QL461.E532).

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Eastern apples Kraft Board Institute.
New York Foudrinier, Kraft Board Institute 1980. Abstract: UnitizeJ distribution techniques bring apples from their point of harvest in a Shenandoah orchard to the supermarket consumer, without loss of quality. Apples are shown being loaded and trucked to the packing plant. There they are sprayed with fungicide; transferred to cold or controlled atmosphere rooms for storage; washed and waxed to enhance appearance and freshness; and dried, graded, sized, and boxed, all by conveyor belt systems. Several methods for packing, bagging and boxing the apples are illustrated. The apples are then shipped on pallets to the warehouse of a large supermarket chain, where they are loaded for delivery to the store's produce department and attractively displayed. These techniques increase shelf life, saleability, and consumer satisfaction. 1 film reel (10 min.) : sd., col. ; 16 mm. (NAL Call No.: SB363.E2 F&N AV).

1544

Building of CA (controlled atmosphere) apple storage (Costs and returns).
Blackler, W.H. (s.l., s.n.). Proceedings of the ... annual meeting - New York State Horticultural Society. 1980. v. 125 (125th). p. 36-38. (NAL Call No.: 81 N484).

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Cost of building cold & CA (controlled atmosphere) storages (for apples).
Russell, C.A. (s.l., s.n.). Proceedings of the ... annual meeting - New York State Horticultural Society. 1980. v. 125 (125th). p. 39-40. (NAL Call No.: 81 N484).

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Distribution of frost protection water applied to apple trees during bud and leaf development (Sprinkler systems).
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Menzies, D.R. Fisher, R.W. Ottawa, Canadian Society of Agricultural Engineering. Canadian agricultural engineering. June 1979. v. 21 (1). p. 15-18. ill. 7 ref. (NAL Call No.: 58.8 C164).

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Murase, H. St. Joseph, Mich., American Society of Agricultural Engineers. Agricultural engineering. Sept 1979. v. 60 (9). p. 23. ill. (NAL Call No.: 58.8 AG83).

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Seeley, E.J. Mt. Vernon, Va., American Society for Horticultural Science. HortScience. Apr 1979. v. 14 (2). p. 162-163. ill. 10 ref. (NAL Call No.: SB1.H6).

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Codling moth.
Solomon, M.E. Glen, D.M. London, Forbes Publications. Abstract: Modern insecticides can control codling moth, but the pest may develop resistance, the insecticide kills other helpful insects and mites, protection of spray machinery operators is required, and the chemical load on the environment is increased. Research at Long Ashton is aimed at integrated control through a combination of chemical and natural biological agents. Studies of cider apple orchards where insecticides are not used revealed birds, especially blue tits, were the most effective predators. Studies in dessert apple orchards where spray programs are used tested the extent to which sex-pheromone traps can be used to time sprays, to indicate population, and extent of crop damage. Long Ashton collaborates with other research organizations to improve chemical control and to develop integrated control. Nutrition and food science. May/June 1979. May/June 1979. (58). p. 12-14. ill. 2 ref.

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Effects of simulated deer browsing on branches of apple trees.
Katsma, D.E. Rusch, D.H. Washington, D.C., Wildlife Society. The Journal of wildlife management. July 1980. v. 44 (3). p. 603-612. ill. 17 ref. (NAL Call No.: 410 J827).

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Korcak, R.F. Mt. Vernon, Va., American Society for Horticultural Science. HortScience. Apr 1979. v. 14 (2). p. 163-164. ill. 6 ref. (NAL Call No.: SB1.H6).

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Effect of irrigation regimes and supplemental nitrogen on alfalfa greening, cork spot, and fruit quality of 'd'Anjou' pears (Water relations, plant nutrition, Pyrus communis).
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The influence of trickle irrigation and nitrogen injection on apple, peach, sour cherry and plum / by Michael Wayne Smith.
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The use of overtree irrigation for crop cooling and frost and freeze protection on apples.
Unrath, C.R. Sneed, R.E. Silver Spring, Md., The Association. Technical conference proceedings.Irrigation Association. 1978. 1978. p. 131-134. (NAL Call No.: 55.9 SP8).

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The action of lecithin and calcium dips an the control of bitter pit in apple fruit.
Watkins, C.B. Harman, J.E.; Ferguson, I.B.; Reid, M.S. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Mar 1982. v. 107 (2). p. 262-265. Includes 13 ref. (NAL Call No.: 81 S012).

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Beat bitter pit and cork spot! (Calcium-related disorders of apples).
Greene, G.M. Willoughby, Ohio, Meister. American fruit grower. June 1980. v. 100 (6). p. 14. ill. (NAL Call No.: 80 G85).

1562

Building of CA (controlled atmosphere) apple storage (Costs and returns).
Blackler, W.H. (s.l., s.n.). Proceedings of the ... annual meeting - New York State Horticultural Society. 1980. v. 125 (125th). p. 36-38. (NAL Call No.: 81 N484).

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Effects of some postharvest and storage treatments on the incidence of flesh browning in controlled-atmosphere-stored 'Delicious' apples (Physiological disorders, calcium, gibberellic acid, diphenylamine).
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Effects of temperature on firmness and bruising of 'Starkrimson Delicious' and 'Golden Delicious' apples (Storage, mechanical injury).
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Electrolyte leakage from daminozide-treated apples held in air, low-pressure, and controlled-atmosphere storage.
Berard, L.S. Lougheed, E.C. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. May 1982. v. 107 (3). p. 421-425. 15 ref. (NAL Call No.: 81 S012).

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Improvement of fruit firmness and acidity in controlled-atmosphere-stored 'Golden Delicious' apples by a rapid O2 (oxygen) reduction procedure (Postharvest physiology, senescence).
Lau, O.L. Looney, N.E. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. July 1982. v. 107 (4). p. 531-534. ill. 6 ref. (NAL Call No.: 81 S012).

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Influence of calcium treatment on Golden Delicious' apple quality.
Orake, S.R. Spayd, S.E. Chicago : Institute of Food Technologists. Abstract: Food quality characteristics of apples treated with calcium chloride in standard cold storage were compared with untreated apples in standard cold storage and controlled-atmosphere storage. Ca treatment improved the storage quality of fresh apples in prolonged cold storage with no loss of quality from that of the processed product. While fresh apples in controlled-atmosphere storage were firmer and had higher ascorbic acid than Ca-treated apples in standard cold storage, fresh Ca-treated apples had less green color and more firmness (with a high acidity and ascorbic acid content) that untreated apples in standard cold storage. Further, processed Ca-treated apple products had superior color and firmness than products made from apples stored under standard cold storage, and had better consistency and less "weep" than products from apples stored under controlled-atmosphere conditions. (wz). Journal of food science. Mar/Apr 1983. v. 48 (2). p. 403-405. charts. Includes 13 references. (NAL Call No.: 389.8 F7322).

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Keeping qualities of 'Stayman' and 'Delicious' apples treated with calcium chloride, scald inhibitors, and other chemicals (Malus domestica, Penicillium expansum).
Hardenburg, R.E. Anderson, R.E. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Nov 1981. v. 106 (6). p. 776-779. Includes 27 ref. (NAL Call No.: 81 S012).

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Low-ethylene CA (controlled atmosphere) of 'McIntosh' apples.
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Low ethylene CA (controlled atmosphere) storage for apples.
Blanpied, G.D. Turk, J.R.; Douglas, J.B. Beaverton, Or. : Timber Press, (1982). Proc. Third Natl. Controlled Atmosphere Research Conf. on Controlled Atmospheres for Storage and Transport of Perishable Agric. Commodities, July 22-24, 1981, Ore. State Univ., Corvallis / D.G. Richardson, M.M. Meheriuk, eds. p. 337-344. (NAL Call No.: TP373.3.C66 1982).

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Market quality of eastern-grown 'Golden Delicious' apples after prestorage CO2 (carbon dioxide) treatment and controlled-atmosphere storage.
Tietjen, W.H. Hudson, D.E. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1984. v. 19 (3,sec.1). p. 427-429. Includes references. (NAL Call No.: SB1.H6).

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The Microbiology of apples and apple products.
Doores, Stephanie. Boca Raton, Fla. : CRC Press. Abstract: The characteristics of spoilage bacteria on apples and apple products (e.g., pie filling, juice, baby food), and the patulin mycotoxin associated with mold in apple products are outlined and discussed. Processes for altering apple microbial load and for controlling patulin formation include atmosphere, light, and temperature control. Guidelines given for ensuring the production of quality apples and apple products cover procedures for proper harvesting, processing (e.g., trimming), and storage. Data are included on the etiology of apple microflora, and on the toxicity, incidence, measurement, and control of patulin. (wz). CRC critical reviews in food science and nutrition. 1983. Literature review. v. 19 (2). p. 133-149. charts. Includes 86 references. (NAL Call No.: TP368.C7).

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Mucor rot of pears and apples (caused by Mucor pyriformis).
Bertrand, P. OR. Saulie-Carter, J. Corvallis, Or., The Station. Special report - Oregon Agricultural Experiment Station.Oregon. Agricultural Experiment Station. Feb 1980. Feb 1980. (568). 21 p. ill. 9 ref. (NAL Call No.: 100 OR3M).

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Objective measurement of aroma quality of Golden Delicious apples as a function of controlled-atmosphere storage time.
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Rapid CA (controlled atmosphere) and low oxygen storage of apples--a new concept for long storage of Golden Delicious and more effective storage of Red Delicious apples (Catalytic converter).
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Stem-end decay and quality of low oxygen stored 'd' anjou' pears (Botrytis cinera, Pezicula malicorticis, Penicillium expansum, Mucor piriformis).
Chen, P.M. Spotts, R.A.; Mellenthin, W.M. Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Nov 1981. v. 106 (6). p. 695-698. Includes 26 ref. (NAL Call No.: 81 SO12).

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Storage responses of four apple cultivars to a "rapid CA" procedure in commercial controlled-atmosphere facilities.
Lau, O.L.JOSHB. Alexandria : The Society. Journal of the American Society for Horticultural Science. July 1983. v. 108 (4). p. 530-533. ill. Includes references. (NAL Call No.: 81 SO12).

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Use of AVG (aminoethoxyvinylglycine) to control ripening of apples.
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Use of dips containing diphenylamine and edible oils to reduce soft scald of apples (Cold storage, physiological disorder).
Wills, R.B.H.HJHSA. Scott, K.J. Alexandria : American Society for Horticultural Science. HortScience. Dec 1982. v. 17 (6). p. 964-965. 3 ref. (NAL Call No.: SB1.H6).

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1593

Insecticide inhibition of growth and patulin production by Penicillium urticae.
Draughon, Frances A. Ayres, John C. Chicago, Institute of Food Technologists. Abstract: Patulin is a potent mycotoxin that can be formed in rotting apples and other fruits or vegetables infected by fungi. Since certain chemical compounds are known to inhibit production of other mycotoxins, including aflatoxin, the effect of insecticides in inhibiting growth and patulin production by the fungus, Penicillium urticae, was investigated using 3 concentrations of insecticide. The organophosphate insecticides Naled and Dichlorvos inhibited patulin production by 100 and 89%, respectively, at the highest (100 mg/l) concentration. The organophosphate insecticides Malathion and Diazinon inhibited patulin production by 0-52% at the same concentration. The carbamate insecticides Landrin and Sevin inhibited patulin production by 85 and 100%, respectively, and completely inhibited fungal sporulation at the 100 mg/l concentration. However, they did not significantly inhibit fungal growth. Thus, insecticides with antimycotoxic effects may be very useful in mycotoxin prevention in food crops. The biochemical mechanism of action of these inhibitory chemicals is not well understood. Journal of food science. July/Aug 1979. v. 44 (4). p. 1232-1234. charts. 14 ref. (NAL Call No.: 389.8 F7322).

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The Microbiology of apples and apple products. Doores, Stephanie. Boca Raton, Fla. : CRC Press. Abstract: The characteristics of spoilage bacteria on apples and apple products (e.g., pie filling, juice, baby food), and the patulin mycotoxin associated with mold in apple products are outlined and discussed. Processes for altering apple microbial load and for controlling patulin formation include atmosphere, light, and temperature control. Guidelines given for ensuring the production of quality apples and apple products cover procedures for proper harvesting, processing (e.g., trimming), and storage. Data are included on the etiology of apple microflora, and on the toxicity, incidence, measurement, and control of patulin. (wz). CRC critical reviews in food science and nutrition. 1983. Literature review. v. 19 (2). p. 133-149. charts. Includes 86 references. (NAL Call No.: TP368.C7).

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Stem-end decay and quality of low oxygen stored 'd' anjou' pears (Botrytis cinera, Pezicula malicorticis, Penicillium expansum, Mucor piriformis).
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Alexandria, Va., The Society. Journal of the American Society for Horticultural Science. Nov 1981. v. 106 (6). p. 695-698. Includes 26 ref. (NAL Call No.: 81 S012).

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Behavior of parathion in apple juice processed into cider and vinegar (Pesticide residues).
Banna, A.A.JPFCD. Kawar, N.S. New York : Marcel Dekker. Journal of environmental science and health. Part B. Pesticides, food contaminants, and agricultural wastes. 1982. v. B17 (5). p. 505-514. 8 ref. (NAL Call No.: TD172.J61).

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Determination of diphenylamine residues in apples.
Luke, B.G. Cossens, S.A. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. May 1980. v. 24 (5). p. 746-751. ill. 8 ref. (NAL Call No.: RA1270.P35A1).

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Effect of pesticide formulation on the distribution of fenitrothion on apple foliage.
Chang-Yen, I.JAFCA. Nickless, G.; Pickard, J.A. Washington : American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1983. v. 31 (6). p. 1137-1139. Includes references. (NAL Call No.: 381 J8223).

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Effects of some postharvest and storage treatments on the incidence of flesh browning in controlled-atmosphere-stored 'Delicious' apples (Physiological disorders, calcium, gibberellic acid, diphenylamine).
Meheriuk, M. Lau, O.L.; Hall, J.W. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. May 1984. v. 109 (3). p. 290-293. Includes references. (NAL Call No.: 81 S012).

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Further studies on the removal of spray residues from Eastern-grown apples by M.H. Haller ... (et al.) ; United States Department of Agriculture, Bureau of Plant Industry and Entomology and Plant Quarantine, in cooperation with the West Virtinia and Maryland Agricultural Experiment Stations.
Haller, M. H.; (Mark Hughlin). Washington, D.C. U.S. Dept. of Agriculture 1942. 36 p. : ill. -. Bibliography: p. 31-32. (NAL Call No.: Fiche S-69 no.828).

1601

Gas-liquid chromatographic determination of fenvalerate insecticide residues in processed apple products and by-products (Fruit products, food hygiene, synthetic pyrethroids, chemical analysis chromatography, New York).
Spittler, T.D.JANCA. Argauer, R.J.; Lisk, D.J.; Mumma, R.O.; Winnett, G. Arlington : The Association. Journal of the Association of Offical Analytical Chemists. Sept 1982. v. 65 (5). p. 1106-1111. 3 ref. (NAL Call No.: 381 AS7).

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Gas-liquid chromatographic-mass spectrometric confirmation of endosulfan and endosulfan sulfate in apples and carrots.
Wilkes, P.S.. Arlington, Va., The Association. Journal of the Association of Offical Analytical Chemists. Sept 1981. v. 64 (5). p. 1208-1210. ill. 5 ref. (NAL Call No.: 381 AS7).

1603

Incidence and development of apple scab on fruit during the late summer and while in storage by Cyril O. Bratley.
Bratley, Cyril O. Washington, D.C. U.S. Dept. of Agriculture 1937. 46 p. : ill. -. Bibliography: p. 43-45. (NAL Call No.: Fiche S-69 no.563).

1604

Inhibition of patulin production (by Penicillium urticae) with the insecticide Naled (Includes testing on apples in storage).
Draughon, F.A. Link, M.A.; Ayres, J.C. Ames, Iowa, International Association of Milk, Food, and Evironmental Sanitarians. Journal of food protection. July 1980. v. 43 (7). p. 575-578. ill. 18 ref. (NAL Call No.: 44.8 J824).

1605

Mycotoxin production by Alternaria species grown on apples, tomatoes, and blueberries (Storage diseases, food contamination).
Stinson, E.E. AR-ERRC. Bills, D.D.; Osman, S.F.; Siciliano, J.; Ceponis, M.J.; Heisler, E.G. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1980. v. 28 (5). p. 960-963. 25 ref. (NAL Call No.: 381 J8223).

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Mycotoxin production in whole tomatoes, apples, oranges and lemons (Alternaria molds).
Stinson, E.E. Osman, S.F.; Heisler, E.G.; Siciliano, J.; Bills, D.D. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. July/Aug 1981. v. 29 (4). p. 790-792. 8 ref. (NAL Call No.: 381 J8223).

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Pear quality as influenced by amitraz insecticide.
Drake, S.R. Burts, E.C.; Nelson, J.W. Pullman, Wash., The Center. Bulletin - College of Agriculture Research Center, Washington State University. 1980. 1980. (0889). 3 p. 7 ref. (NAL Call No.: 100 W27E).

1608

Removal of captan from treated apples (Fungicide residues).
Frank, R.AECTCV. Braun, H.E.; Stanek, J. New York : Springer-Verlag. Archives of environmental contamination and toxicology. May 1983. v. 12 (3). p. 265-269. Includes references. (NAL Call No.: TD172.A7).

1609

How to shine an apple.
Lecos, Chris. Washington, Food and Drug Administration. Abstract: American fruit and vegetable packers and processors have been coating many of their perishable products for more than 50 years. Most of the fruits and vegetables contain 80-95% water by weight; when plucked, loss of water causes weight loss, shriveling and wilting, leading to losses in quality as well as vitamins and other nutrients. Many products are cleaned with solvent detergents by packers, which may remove the natural wax covering. In addition to cold storage, the commercial use of wax preparations is rather extensive on citrus, rutabagas, and cucumbers and less on other crops such as peppers, tomatoes, and apples. A study for the Washington Apple Commission showed that waxing of apples resulted in a measurable decrease in water loss during storage (3.12-4.69% weight loss for untreated apples; 2.23-3.21% for waxed apples). The waxing process used does not introduce measurable amounts of foreign wax into the apple. The use of various waxes for fruits and vegetables and FDA findings are discussed. (wz). F.D.A. consumer. Feb 1982. v. 16 (1). p. 8-11. ill. (NAL Call No.: HD9000.9.U5A1).

1610

The action of lecithin and calcium dips an the control of bitter pit in apple fruit.
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Drake, S.R. Spayd, S.E. Chicago : Institute of Food Technologists. Abstract: Food quality characteristics of apples treated with calcium chloride in standard cold storage were compared with untreated apples in standard cold storage and controlled-atmosphere storage. Ca treatment improved the storage quality of fresh apples in prolonged cold storage with no loss of quality from that of the processed product. While fresh apples in controlled-atmosphere storage were firmer and had higher ascorbic acid than Ca-treated apples in standard cold storage, fresh Ca-treated apples had less green color and more firmness (with a high acidity and ascorbic acid content) that untreated apples in standard cold storage. Further, processed Ca-treated apple products had superior color and firmness than products made from apples stored under standard cold storage, and had better consistency and less "weep" than products from apples stored under controlled-atmosphere conditions. (wz). Journal of food science. Mar/Apr 1983. v. 48 (2). p. 403-405. charts. Includes 13 references. (NAL Call No.: 389.8 F7322).

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Eastern apples Kraft Board Institute. Eastern apples Kraft Board Institute.
New York Foudrinier, Kraft Board Institute 1980. New York Foudrinier, Kraft Board Institute 1980. Abstract: Unitized distribution techniques bring apples from their point of harvest in a Shenandoah orchard to the supermarket consumer, without loss of quality. Apples are shown being loaded and trucked to the packing plant. There they are sprayed with fungicide; transferred to cold or controlled atmosphere rooms for storage; washed and waxed to enhance appearance and freshness; and dried, graded, sized, and boxed, all by conveyor belt systems. Several methods for packing, bagging and boxing the apples are illustrated. The apples are then shipped on pallets to the warehouse of a large supermarket chain, where they are loaded for delivery to the store's produce department and attractively displayed. These techniques increase shelf life, saleability, and consumer satisfaction. Abstract: Unitized distribution techniques bring apples from their point of harvest in a Shenandoah orchard to the supermarket consumer, without loss of quality. Apples are shown being loaded and trucked to the packing plant. There they are sprayed with fungicide; transferred to cold or controlled atmosphere rooms for storage; washed and waxed to enhance appearance and freshness; and dried, graded, sized, and boxed, all by conveyor belt systems. Several methods for packing, bagging and boxing the apples are illustrated. The apples are then shipped on pallets to the warehouse of a large supermarket chain, where they are loaded for delivery to the store's produce department and attractively displayed. These techniques increase shelf life, saleability, and consumer satisfaction. 1 film reel (10 min.) : sd., col. ; 16 mm. i film reel (10 min.) : sd., col. ; 16 mm. (NAL Call No.: SB363.E2 F&N AV).(NAL Call No.: SB363.E2 F&N AV).

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